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DDDDDDDDDDDD DDDDDDDDDDDD DDDDDDDDDDDD	TTTTTTTTTTTT TTTTTTTTTTTT TTTTTTTTTTTT	SSSSSSSSSSSS SSSSSSSSSSSS SSSSSSSSSSSS	DDDDDDDDDDDD DDDDDDDDDDDD DDDDDDDDDDDD	TTTTTTTTTTTT TTTTTTTTTTTT TTTTTTTTTTTT	RRRRRRRRRRRR RRRRRRRRRRRR RRRRRRRRRRRR
DDD DDD	TTT	SSS	DDD DDD	TTT	RRR RRR
DDD DDD	TTT	SSS	DDD DDD	TTT	RRR RRR
DDD DDD	TTT	SSS	DDD DDD	TTT	RRR RRR
DDD DDD	TTT	SSS	DDD DDD	TTT	RRR RRR
DDD DDD	TTT	SSS	DDD DDD	TTT	RRR RRR
DDD DDD	TTT	SSS	DDD DDD	TTT	RRR RRR
DDD DDD	TTT	SSS	DDD DDD	TTT	RRR RRR
DDD DDD	TTT	SSS	DDD DDD	TTT	RRR RRR
DDD DDD	TTT	SSS	DDD DDD	TTT	RRR RRR
DDD DDD	TTT	SSS	DDD DDD	TTT	RRR RRR
DDD DDD	TTT	SSS	DDD DDD	TTT	RRR RRR
DDD DDD	TTT	SSS	DDD DDD	TTT	RRR RRR
DDD DDD	TTT	SSS	DDD DDD	TTT	RRR RRR
DDD DDD	TTT	SSS	DDD DDD	TTT	RRR RRR
DDD DDD	TTT	SSS	DDD DDD	TTT	RRR RRR
DDDDDDDDDDDD	TTTTTTTTTTTT	SSSSSSSSSSSS	DDDDDDDDDDDD	TTTTTTTTTTTT	RRRRRRRRRRRR
DDDDDDDDDDDD	TTTTTTTTTTTT	SSSSSSSSSSSS	DDDDDDDDDDDD	TTTTTTTTTTTT	RRRRRRRRRRRR
DDDDDDDDDDDD	TTTTTTTTTTTT	SSSSSSSSSSSS	DDDDDDDDDDDD	TTTTTTTTTTTT	RRRRRRRRRRRR

```

DDDDDDDD      TTTTTTTTTT  RRRRRRRR  MM      MM  AAAAAA  IIIIII  NN      NN
DDDDDDDD      TTTTTTTTTT  RRRRRRRR  MM      MM  AAAAAA  IIIIII  NN      NN
DD      DD      TT          RR      RR  MMMM  MMMM  AA      AA  II      NN      NN
DD      DD      TT          RR      RR  MMMM  MMMM  AA      AA  II      NN      NN
DD      DD      TT          RR      RR  MM  MM  MM  AA      AA  II      NNNN  NN
DD      DD      TT          RR      RR  MM  MM  MM  AA      AA  II      NNNN  NN
DD      DD      TT          RRRRRRRR  MM      MM  AA      AA  II      NN  NN  NN
DD      DD      TT          RRRRRRRR  MM      MM  AA      AA  II      NN  NN  NN
DD      DD      TT          RR  RR      MM      MM  AAAAAAAAAA  II      NN      NNNN
DD      DD      TT          RR  RR      MM      MM  AAAAAAAAAA  II      NN      NNNN
DD      DD      TT          RR      RR  MM      MM  AA      AA  II      NN      NN
DD      DD      TT          RR      RR  MM      MM  AA      AA  II      NN      NN
DD      DD      TT          RR      RR  MM      MM  AA      AA  IIIIII  NN      NN
DDDDDDDD      TT          RR      RR  MM      MM  AA      AA  IIIIII  NN      NN
DDDDDDDD      TT          RR      RR  MM      MM  AA      AA  IIIIII  NN      NN

```

```

LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLLLL  IIIIII  SSSSSSSS

```

TSTSDTRMAIN  
Table of contents

- DTR MAINLINE

I 16

16-SEP-1984 01:27:10 VAX/VMS Macro V04-00

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DECLARATIONS  
TST\$START\_DTR - MAINLINE

```
0000 1 .TITLE TSTSDTRMAIN - DTR MAINLINE
0000 2 .IDENT 'V04-000'
0000 3
0000 4
0000 5 :*****
0000 6 :*
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0000 21 :*
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0000 23 :* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 24 :*
0000 25 :*
0000 26 :*****
0000 27 :
0000 28
0000 29 :++
0000 30 : FACILITY: DTS/DTR DECNET TEST PACKAGE
0000 31
0000 32 : ABSTRACT:
0000 33
0000 34 : DTS/DTR ARE COOPERATING TEST PROGRAMS THAT EXERCISE NSP LEVEL
0000 35 : FUNCTIONS ON A DECNET/VAX-11 NODE. DTS (SENDER) INITIATES A TEST
0000 36 : SEQUENCE WHILE DTR (RECEIVER) IS THE PASSIVE PARTNER THAT PERFORMS
0000 37 : THE REQUESTED FUNCTION. FIVE BASIC TESTS ARE IMPLEMENTED:
0000 38
0000 39 : 1. THE CONNECT TEST EXERCISES THE CONNECT ACCEPT/REJECT LOGIC
0000 40 : WITH/WITHOUT OPTIONAL DATA.
0000 41
0000 42 : 2. THE DATA TEST TRANSMITS DATA MESSAGES AND OPTIONALLY COMPUTES
0000 43 : THROUGHPUT STATISTICS. VARIOUS DATA VALIDATION CHECKS
0000 44 : AND FLOW CONTROL MECHANISMS MAY BE ENABLED.
0000 45
0000 46 : 3. THE DISCONNECT TEST EXERCISES THE DISCONNECT SYNCHRONOUS/ABORT
0000 47 : LOGIC WITH/WITHOUT OPTIONAL DATA.
0000 48
0000 49 : 4. THE INTERRUPT TEST TRANSMITS INTERRUPT MESSAGES AND OPTIONALLY
0000 50 : COMPUTES THROUGHPUT STATISTICS. VARIOUS DATA VALIDATION
0000 51 : CHECKS AND FLOW CONTROL MAY BE ENABLED.
0000 52
0000 53 : 5. THE MISCELLANEOUS TEST EXERCISES DECNET/VAX-11 SPECIFIC
0000 54 : FUNCTIONS AND VALIDATES ERROR LOGIC.
0000 55
0000 56 : ENVIRONMENT: DTR RUNS IN USER MODE AND REQUIRES NETWORK PRIVILEGE.
0000 57 :
```

```
0000 58 : AUTHOR: JAMES A. KRYCKA,      CREATION DATE: 11-AUG-77
0000 59 :
0000 60 : MODIFICATIONS:
0000 61 :
0000 62 :      V03-001 JAK0001      J A Krycka      27-JUN-1983
0000 63 :      Make call to LIB$ASN_WTH_MBX position independent.
0000 64 :
0000 65 :      X0.1-11 DJD0001      Darrell Duffy  10-December-1979
0000 66 :      Change to use LIB$ASN_WTH_MBX
0000 67 :
0000 68 :--
```

```
0000 70      .SBTTL  DECLARATIONS
0000 71
0000 72 :
0000 73 : INCLUDE FILES:
0000 74 :
0000 75      $DTSDEF
0000 76      CMDDEF      ; DEFINE COMMAND LANGUAGE SYMBOLS
0000 77      .IIF NE K_LIST_MEB, .LIST MEB ; DEFINED IN DTPREFIX.MAR
0000 78 :
0000 79 : MACROS:
0000 80 :
0000 81 :     NONE
0000 82 :
0000 83 : EQUATED SYMBOLS:
0000 84 :
0000 85 :     NONE
0000 86 :
0000 87 : OWN STORAGE:
0000 88 :
0000 89 :     NONE
```

```
0000 91      .SBTTL  TST$START_DTR - MAINLINE
00000000 92      .PSECT  TST$CODE      NOWRT
0000 93      R::                                ; SYMBOL FOR DEBUGGING PURPOSES
0000 94
0000 95      :++
0000 96      : FUNCTIONAL DESCRIPTION:
0000 97      :
0000 98      :     NONE
0000 99      :
0000 100     : CALLING SEQUENCE:
0000 101     :
0000 102     :     DTR IS INITIATED BY NETACP VIA AN NSP CONNECT INITIATE REQUEST
0000 103     :     FROM DTS.
0000 104     :
0000 105     : INPUT PARAMETERS:
0000 106     :
0000 107     :     NONE
0000 108     :
0000 109     : IMPLICIT INPUTS:
0000 110     :
0000 111     :     NONE
0000 112     :
0000 113     : OUTPUT PARAMETERS:
0000 114     :
0000 115     :     NONE
0000 116     :
0000 117     : IMPLICIT OUTPUTS:
0000 118     :
0000 119     :     NONE
0000 120     :
0000 121     : COMPLETION CODES:
0000 122     :
0000 123     :     NONE
0000 124     :
0000 125     : SIDE EFFECTS:
0000 126     :
0000 127     :     NONE
0000 128     :
0000 129     : --
0000 130
0000 131     .ENTRY  TST$START_DTR,^M<>      ; ENTRY POINT FROM EXECUTIVE
0002 132
0002 133 :
0002 134 : CREATE A TEMPORARY MAILBOX THAT WILL BE USED AS THE ASSOCIATED LINK
0002 135 : CHANNEL MAILBOX AND ASSIGN A CHANNEL TO IT.
0002 136 :
0002 137 :
0002 138 :
0002 139 : CREATE A CONTROL/INFORMATION PATH TO NETACP IN PREPARATION FOR
0002 140 : NON-TRANSPARENT NETWORK I/O. ALSO ASSOCIATE A MAILBOX WITH THE
0002 141 : CHANNEL.
0002 142 :
0002 143 :
0002 144 :
0002 145 :     These things are all done by the LIB$ASN_WTH_MBX routine
0002 146 :
0002 147 :
```

```

00000000'8F DD 0002 148 PUSHL #TST&K_MAILQUOTA ; Setup mailbox quota
      52 5E DD 0008 149 MOVL SP, R2 ; Save its address
00000000'8F DD 000B 150 PUSHL #TST&K_MAILBUF ; Mailbox message size
      51 5E DD 0011 151 MOVL SP, R1 ; its address too
      0000'CF 3F 0014 152 PUSHAW W^TST&GW_MAILCHAN ; Address of mailbox channel
      0000'CF 3F 0018 153 PUSHAW W^TST&GW_LINKCHAN ; Address for link channel
      0000'CF 7F 001E 155 PUSHAW W^TST&GW_LINKNAME ; Those addresses we saved
00000000'CF 05 FB 0022 156 CALLS #5, G^LIB&ASN_WTH_MBX ; The name for the device (_NET)
      5E 08 CO 0029 157 ADDL2 #8, SP ; Assign the channels and create mbx
      002C 158 CHECK_SS ; Dump the quota and message size
      002F 159 ; Check the system service status code
      002F 160 ;
      002F 161 ; TRANSLATE THE LOGICAL NAME 'SYS&NET'. ITS EQUIVALENCE STRING IS
      002F 162 ; SET-UP BY NETACP TO BE THE ENTIRE NETWORK CONNECT BLOCK (NCB) WHICH
      002F 163 ; IS REQUIRED TO GAIN NON-TRANSPARENT ACCESS TO THE NETWORK.
      002F 164 ;
      002F 165 ;
5B 0000'CF 7E 002F 166 MOVAQ W^TST&GQ_NCB, R11 ; GET ADDRESS OF NCB DESCRIPTOR BLOCK
      0034 167 STRNLOG_S LOGNAM=W^TST&GQ_SYSNAM&- ; ADDR OF LOGICAL NAME DESCRIPTOR
      0034 168 RSLLEN=(R11)- ; UPDATE SIZE IN NCB DESCRIPTOR
      0034 169 RSLBUF=(R11) ; PUT TRANSLATED STRING IN NCB
      0049 170 CHECK_SS ; CHECK STATUS CODE
      004C 171 ;
      004C 172 ;++
      004C 173 ; THE GENERAL FORMAT OF THE EQUIVALENCE STRING DERIVED FROM SYS&NET IS:
      004C 174 ;
      004C 175 ; nodespec::"objecttype=taskid/netacp_string"
      004C 176 ;
      004C 177 ; THE FOLLOWING WILL BE OUTPUT TO THE PRINT FILE:
      004C 178 ;
      004C 179 ; nodespec::"objecttype=taskid"
      004C 180 ;
      004C 181 ; THE FOLLOWING WILL BE PUT INTO THE NCB FOR A CONNECT ACCEPT/REJECT
      004C 182 ; WITHOUT USERDATA:
      004C 183 ;
      004C 184 ; nodespec::"objecttype=taskid/next_two_bytes"
      004C 185 ;
      004C 186 ; THE FOLLOWING WILL BE PUT INTO THE NCB FOR A CONNECT ACCEPT/REJECT
      004C 187 ; WITH USERDATA:
      004C 188 ;
      004C 189 ; nodespec::"objecttype=taskid/next_two_bytes_plus_counted_string"
      004C 190 ;--
      004C 191 ;
04 BB 6B 2F 3A 004F 192 LOCC #^A\ \, (R11), @4(R11) ; FIND TASKID DELIMITER
      0051 193 BNEQU 10$ ; BRANCH IF SLASH FOUND
      0053 194 BRW EXIT ; OTHERWISE IT'S A FATAL ERROR!!
      5A 51 03 C1 0056 195 10$: ADDL3 #<1+2>, R1, R10 ; COMPUTE ADDRESS OF USERDATA COUNTED
      005A 196 ; ASCII STRING BY SKIPPING OVER
      005A 197 ; SLASH AND FIRST TWO BYTES OF
      005A 198 ; NETACP STRING DATA
56 51 04 AB C3 005A 199 SUBL3 4(R11), R1, R6 ; DETERMINE LENGTH OF NCB STRING
      005F 200 ; THRU TASKID FIELD FOR PRINTOUT
      005F 201 ; NOTE, NO MATCHING QUOTE INCLUDED!
      52 5A 11 C1 005F 202 ADDL3 #<1+16>, R10, R2 ; COMPUTE ADDRESS OF ONE BYTE PAST
      0063 203 ; USERDATA STRING; NOTE, NETACP
      0063 204 ; ALWAYS ALLOCATES 17 BYTES FOR

```



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      82  22  90 0063 205          ; THE COUNTED STRING
      0063 206          ; TERMINATE NCB STRING WITH
      0066 207          ; MATCHING QUOTE
68  52  04 AB C3 0066 208          ; UPDATE SIZE OF SHORTENED NCB
      0068 209          ; STRING IN NCB DESCRIPTOR
      0068 210
      0068 211
      0068 212          ; PROCESS THE FUNCTION AND SUBFUNCTION VALUES OF THE REQUEST FROM DTSEND
      0068 213          ; STORED IN THE USERDATA FIELD OF THE NETACP_STRING.
      0068 214
      0068 215
      55  01 AA  9A 0068 216          MOVZBL 1(R10),R5          ; GET TESTTYPE FIELD VALUE
      06  55  07  E5 006F 217          BBCC #7,R5,20$          ; IS PRINT OPTION SPECIFIED?
0000'CF 80 8F  90 0073 218          MOVB #VAL_K PRIN_YES,W^TST$GB PRINT ; YES, UPDATE PRINT VALUE
      0000'CF 55  90 0079 219 20$: MOVB R5,W^TST$GB_TEST ; STORE TESTTYPE (FUNCTION) VALUE
      59  02 AA  9A 007E 220          MOVZBL 2(R10),R9          ; GET TYPE (SUBFUNCTION) VALUE
      0000'CF 59  90 0082 221          MOVB R9,W^TST$GB_TYPE ; STORE TYPE VALUE
      0087 222
      0087 223
      0087 224          ; OPEN THE PRINT FILE
      0087 225
      0087 226
      0000'CF 91 0087 227          CMPB W^TST$GB PRINT,- ; IS PRINT OPTION SPECIFIED?
      80  8F  12 008B 228          BNEQ #VAL_K PRIN_YES ; BRANCH IF NO
      6D  12  008D 229          $OPEN FAB=W^TST$PRTFAB ; OPEN THE FILE
      008F 230          CHECK_RMS ; CHECK COMPLETION CODE
      009A 231          $CONNECT RAB=W^TST$PRTRAB ; ESTABLISH A RECORD STREAM
      009D 232          CHECK_RMS ; CHECK COMPLETION CODE
      00AB 233
      00AB 234
      00AB 235          ; OUTPUT THE INITIALIZATION MESSAGE TO THE PRINT FILE
      00AB 236
      00AB 237
      00AB 238
      00AB 239          $FAO_S CTRSTR=W^TST$GQ_INIT- ; FORMAT MESSAGE
      00AB 240          OUTLEN=W^TST$GW_PRTLEN- ;
      00AB 241          OUTBUF=W^TST$GQ_PRTBUF- ;
      00AB 242          P1=#TST$GT_DTR- ; INSERT DTR ID
      00AB 243          P2=#TST$GT_VERSION- ;
      00AB 244          P3=#0 ; INSERT DATE AND TIME
      FF2E' 30 00CC 245          CHECK_SS ; CHECK STATUS CODE
      00CF 246          BSBW TST$PRINT_FAO ; PRINT MESSAGE
      00D2 247
      00D2 248          ; OUTPUT THE IDENTITY OF THE REQUESTOR TO THE PRINT FILE
      00D2 249
      00D2 250
      00D2 251
      00D2 252          $FAO_S CTRSTR=W^TST$GQ_CALLER- ; FORMAT MESSAGE
      00D2 253          OUTLEN=W^TST$GW_PRTLEN- ;
      00D2 254          OUTBUF=W^TST$GQ_PRTBUF- ;
      00D2 255          P1=#TST$GT_DTR- ; INSERT DTR ID
      00D2 256          P2=#TST$GT_VERSION- ; INSERT DTR VERSION NUMBER
      00D2 257          P3=R6- ; LENGTH OF STRING LESS MATCHING QUOTE
      00D2 258          P4=4(R11) ; ADDRESS OF NCB STRING
      FF04' 30 00F6 259          CHECK_SS ; CHECK STATUS CODE
      00F9 260          BSBW TST$PRINT_FAO ; PRINT MESSAGE
      00FC 261

```

```
00FC 262 :  
00FC 263 : DISPATCH TO APPROPRIATE ROUTINE FOR EXECUTING THE COMMAND  
00FC 264 :  
00FC 265 :  
10'AF 9F 00FC 266 DISPATCH:  
00FF 267 PUSHAB B^TEST_COMPLETE : PUT RETURN ADDRESS ON STACK  
00FF 268 : SO THAT ROUTINES EXECUTED BY  
00FF 269 : 'CASE' CAN EXIT VIA 'RSB'  
00FF 270 $CASEB SELECTOR=R5,DISPL=<- : DISPATCH TO:  
00FF 271 TST$CONN_DTR- : CONNECT TEST  
00FF 272 TST$DATA_DTR- : DATA TEST  
00FF 273 TST$DISC_DTR- : DISCONNECT TEST  
00FF 274 TST$INTE_DTR- : INTERRUPT TEST  
00FF 275 TST$MISC_DTR- : MISCELLANEOUS NSP TEST  
FEFO' 31 00FF 276 > :  
010D 277 BRW TST$BAD_DTR : INVALID TEST TYPE  
0110 278 :  
0110 279 :  
0110 280 : RETURN HERE AFTER COMPLETING THE TEST  
0110 281 :  
0110 282 :  
0000'CF 91 0110 283 TEST_COMPLETE:  
80 8F 0114 284 CMPB W^TST$GB_PRINT,- : IS PRINT OPTION SPECIFIED?  
7F 12 0116 285 #VAL_K_PRIN_YES :  
0118 286 BNEQ TERMINATE : BRANCH IF NO  
0118 287 :  
0118 288 :  
0118 289 : OUTPUT END-OF-TEST MESSAGE TO THE PRINT FILE  
0118 290 :  
0000'CF 03 80 0118 292 MOVW #3,W^TST$GT_DTSMSG :ASSUME THERE IS AN FAO ARG  
0000'CF 50 D0 011D 293 MOVL R0,W^TST$GL_DTEERROR :SETUP ERROR CODE  
50 01 01 0122 294 CMPL #1,R0  
0000'CF 05 12 0125 295 BNEQU 1$  
01 01 80 0127 296 MOVW #1,W^TST$GT_DTSMSG  
012C 297 1$:  
012C 298 $PUTMSG_S MSGVEC=W^TST$GT_DTSMSG-  
012C 299 FACNAM=W^TST$GL_DTRDESC  
013F 300 CHECK_SS : CHECK STATUS CODE  
0000'CF 01 D1 0142 301 CMPL #1,W^TST$GL_DTEERROR  
03 13 0147 302 BEQLU 2$  
004B 31 0149 303 BRW W^TERMINATE :LEAVE DTR  
014C 304 2$:  
01 0000'CF 91 014C 305 CMPB W^TST$GB_TEST,#VAL_K_TEST_DATA :DATA TEST?  
0E 13 0151 306 BEQLU SUMMARY :YES, THERE'S MORE TO DO  
03 0000'CF 91 0153 307 CMPB W^TST$GB_TEST,#VAL_K_TEST_INTE : WAS THIS AN INTERRUPT TEST?  
3D 12 0158 308 BNEQU TERMINATE :NO, FINISHED  
0000'CF 7D 015A 309 MOVQ W^TST$GL_XMITINTE,- : YES, COPY TRANSMIT AND RECEIVE  
0000'CF 015E 310 W^TST$GL_XMITDATA : INTE COUNTERS TO DATA COUNTERS  
0161 311 :  
0161 312 :  
0161 313 : OUTPUT DATA/INTERRUPT TEST SUMMARY INFORMATION TO THE PRINT FILE  
0161 314 :  
0161 315 :  
50 0000'CF 3C 0161 316 SUMMARY:  
0000'CF C1 0166 317 MOVZWL W^TST$GW_SIZE,R0 : GET MESSAGE SIZE  
318 ADDL3 W^TST$GL_XMITDATA,- : CALCULATE TOTAL NUMBER OF
```

```

51 0000'CF 016A 319 W^TST$GL_RECVDATA,R1 : MESSAGES TRANSFERRED
52 51 50 C5 016E 320 MULL3 RO,R1,R2 : CALCULATE TOTAL NUMBER OF
0172 321 : BYTES TRANSFERRED
0172 322 $FAO_S CTRSTR=W^TST$GQ_STAT3- : FORMAT MESSAGE
0172 323 :
0172 324 : OUTLEN=W^TST$GW_PRTLEN-
0172 325 : OUTBUF=W^TST$GQ_PRTBUF-
0172 326 : P1=R0- : DATA MESSAGE SIZE
0172 327 : P2=W^TST$GL_XMITDATA- : TOTAL # OF MESSAGES TRANSMITTED
0172 328 : P3=W^TST$GL_RECVDATA- : TOTAL # OF MESSAGES RECEIVED
0172 329 : P4=R2 : TOTAL # BYTES TRANSFERRED
FE69' 30 0191 329 CHECK_SS : CHECK STATUS CODE
0194 330 BSBW TST$PRINT_FAO : PRINT MESSAGE
0197 331 :
0197 332 :
0197 333 : OUTPUT TERMINATION MESSAGE TO THE PRINT FILE
0197 334 :
0197 335 :
0197 336 TERMINATE: :
0197 337 CMPB W^TST$GB_PRINT,- : IS PRINT OPTION SPECIFIED?
80 8F 019B 338 #VAL_K_PRIN_YES :
21 12 019D 339 BNEQ EXIT : BRANCH IF NO
019F 340 $FAO_S CTRSTR=W^TST$GQ_TERM- : FORMAT MESSAGE
019F 341 : OUTLEN=W^TST$GW_PRTLEN-
019F 342 : OUTBUF=W^TST$GQ_PRTBUF-
019F 343 : P1=#TST$GT_DTR- : INSERT DTR ID
019F 344 : P2=#0 : INSERT DATE AND TIME
FE40' 30 01BA 345 CHECK_SS : CHECK STATUS CODE
01BD 346 BSBW TST$PRINT_FAO : PRINT MESSAGE
01C0 347 :
01C0 348 :
01C0 349 : DEASSIGN I/O CHANNELS
01C0 350 :
01C0 351 :
01C0 352 : $DASSGN S CHAN=W^TST$GW_MAILCHAN : DEASSIGN ASSOCIATED MAILBOX
01C0 353 : CHECK_SS : CHECK STATUS CODE
01C0 354 : $DASSGN S CHAN=W^TST$GW_LINKCHAN : DEASSIGN COMMUNICATIONS LINK
01C0 355 : CHECK_SS : CHECK STATUS CODE
01C0 356 : $CLOSE FAB=W^TST$PRTFAB : CLOSE PRINT FILE
01C0 357 EXIT: :
01C0 358 $EXIT_S : EXIT TO VMS
01C9 359 .END TST$START_DTR

```

TSTSDTRMAIN  
Symbol table

- DTR MAINLINE

F 1

16-SEP-1984 01:27:10 VAX/VMS Macro V04-00  
5-SEP-1984 00:22:16 [DTS DTR.SRC]DTRMAIN.MAR;1

```

$$TMP1      = 00000001
$$TMP2      = 000000CF
$$COUNT    = 00000005
$$T2        = 00000005
DISPATCH   000000FC R    02
EXIT        000001C0 R    02
K LIST MEB  = 00000000
LIBSASR_WTH_MBX
R
SUMMARY     00000161 R    02
SYSSCONNECT ***** GX  02
SYSEXIT     ***** GX  02
SYSSFAO     ***** X   02
SYSSOPEN    ***** GX  02
SYSSPUTMSG  ***** GX  02
SYSSSTRNLOG ***** GX  02
TERMINATE   00000197 R    02
TEST COMPLETE 00000110 R    02
TST$BAD_DTR ***** X   02
TST$CHECK_RMS ***** X   02
TST$CHECK_SS ***** X   02
TST$CONN_DTR ***** X   02
TST$DATA_DTR ***** X   02
TST$DISC_DTR ***** X   02
TST$GB_PRINT ***** X   02
TST$GB_TEST ***** X   02
TST$GB_TYPE ***** X   02
TST$GL_DERROR ***** X   02
TST$GL_RECVDATA ***** X   02
TST$GL_XMITDATA ***** X   02
TST$GL_XMITINTE ***** X   02
TST$GO_CALLER ***** X   02
TST$GO_DIRDESC ***** X   02
TST$GO_INIT ***** X   02
TST$GO_LINKNAME ***** X   02
TST$GO_NCB ***** X   02
TST$GO_PRTBUF ***** X   02
TST$GO_STAT3 ***** X   02
TST$GO_SYSNAME ***** X   02
TST$GO_TERM ***** X   02
TST$GT_DTR ***** X   02
TST$GT_DTSMSG ***** X   02
TST$GT_VERSION ***** X   02
TST$GW_LINKCHAN ***** X   02
TST$GW_MAILCHAN ***** X   02
TST$GW_PRTLEN ***** X   02
TST$GW_SIZE ***** X   02
TST$INTE_DTR ***** X   02
TST$K_MAILBUF ***** X   02
TST$K_MAILQUOTA ***** X   02
TST$MISC_DTR ***** X   02
TST$PRINT_FAO ***** X   02
TST$PRTFAB ***** X   02
TST$PRTTAB ***** X   02
TST$START_DTR 00000000 RG  02
VAL_K_BACR_NO = 00000000
VAL_K_DISP_NO = 00000000

```

```

VAL_K_FLOW_MESS= 00000002
VAL_K_NAK_NO   = 00000000
VAL_K_PRIN_NO  = 00000000
VAL_K_PRIN_YES = 00000080
VAL_K_RETU_NO  = 00000000
VAL_K_STAT_YES = 00000001
VAL_K_TEST_DATA= 00000001
VAL_K_TEST_INTE= 00000003
VAL_K_TYPE_ABRT= 00000001
VAL_K_TYPE_ACCE= 00000001
VAL_K_TYPE_NAME= 00000000
VAL_K_TYPE_SINK= 00000000

```

T  
V

-----  
! Psect synopsis !  
-----

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 ( 0.)	00 ( 0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$ABSS	00000000 ( 0.)	01 ( 1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
TST\$CODE	000001C9 ( 457.)	02 ( 2.)	NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC BYTE

-----  
! Performance indicators !  
-----

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.07	00:00:00.42
Command processing	103	00:00:00.71	00:00:04.79
Pass 1	198	00:00:05.01	00:00:14.73
Symbol table sort	0	00:00:00.11	00:00:00.13
Pass 2	78	00:00:01.36	00:00:03.36
Symbol table output	7	00:00:00.08	00:00:00.17
Psect synopsis output	2	00:00:00.05	00:00:00.07
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	419	00:00:07.39	00:00:23.69

The working set limit was 1050 pages.  
20085 bytes (40 pages) of virtual memory were used to buffer the intermediate code.  
There were 10 pages of symbol table space allocated to hold 130 non-local and 5 local symbols.  
421 source lines were read in Pass 1, producing 20 object records in Pass 2.  
29 pages of virtual memory were used to define 23 macros.

-----  
! Macro library statistics !  
-----

Macro library name	Macros defined
_\$255\$DUA28:[DTS DTR.OBJ]DTS DTR.MLB;1	6
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	12
TOTALS (all libraries)	18

295 GETS were required to define 18 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:DTRMAIN/OBJ=OBJ\$:DTRMAIN MSRC\$:DTPREFIX/UPDATE=(ENH\$:DTPREFIX)+MSRC\$:DTRMAIN/UPDATE=(ENH\$:DTRMAIN)



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A dense grid of technical diagrams and code snippets, including the following labels:

- XDRIVER LIS
- DTGLOBAL LIS
- DTDEFINE LIS
- DTMAIN LIS
- DTRAST LIS
- DTPREFIX MAR
- DTSOFR
- DTCOMMON LIS
- DTRECU MAP
- DTSEND MAP
- DTMACROS MAR



